



Missouri Weekly Influenza Report

2006-2007 Season¹

Missouri is reporting “Sporadic Influenza Activity” to the CDC for Week 17².

To view influenza maps click [here](#). Each map will give county data by placing the cursor over the county.

Table 1. Reported Laboratory cases by sub-type for the Week ending April 28, 2007 (Week 17)

Serogroups	A (non- typed)	A (H1)	A (H1N1)	A (H3)	B	A or B Untyped (rapid test)	Total
Week 17	24	0	0	0	7	3	34

27 cases by rapid non-culture diagnostic test and 7 culture confirmed type B have been reported for week 17.

Table 2. Influenza Season-to-Date and 5-season Median by Influenza Type Through Week Ending April 28, 2007 (Week 17)

Influenza Type	2006-07 Season	5-Season Median	Percent Change from 5-Season Median
Influenza A	9,110	6,696	36.1%
Influenza B	2,190	880	148.9%
Influenza Unknown Or Untyped	3,460	2,828	22.3%
Total	14,760	10,848	36.1%

Season-to-Date: two isolates are identified as influenza A/Hawaii/15/2001-like (H1N1) viruses and two other isolates as influenza A/New Caledonia/20/99-like (H1N1) viruses.

Table 3. Influenza Season-to-Date and 5-season Median by Age Group Through Week Ending April 28, 2007 (Week 17)

Age Group	2006-07 Count	5-Season Median	Percent Change from 5-Season Median
00-<02	1,694	1,317	28.6%
02-04	2,493	991	151.6%
05-14	6,453	2,044	215.7%
15-24	1,309	1,133	15.5%
25-49	1,936	1,503	28.8%
50-64	524	598	(12.4%)
65+	351	1,275	(72.5%)
Total	14,760	10,848	36.1%

Table 4. Influenza Season-to-Date and 5-season Median by Region Through Week Ending April 28, 2007 (Week 17)

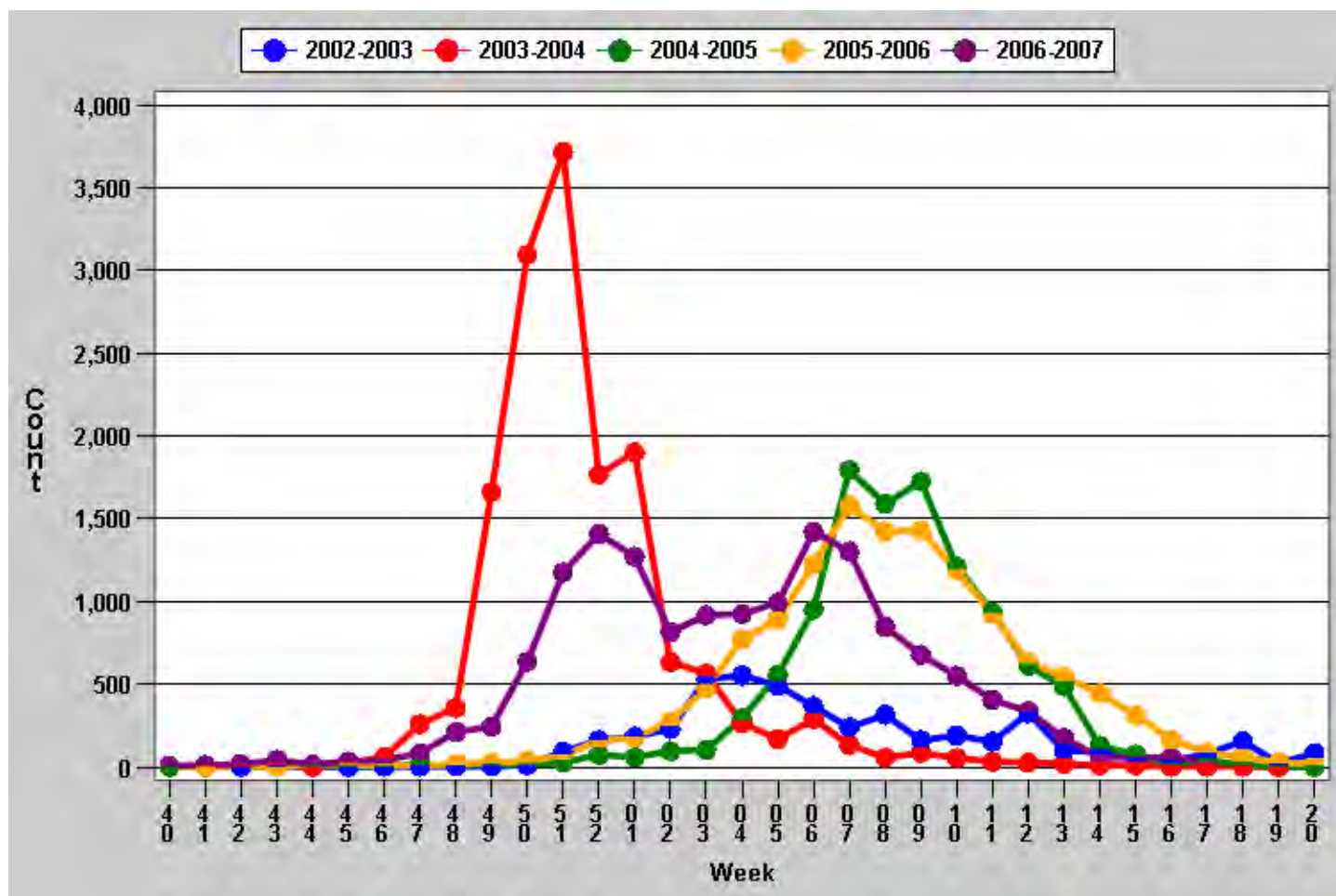
Region	2006-07 Count	5-Season Median	Percent Change from 5-Season Median
CE	1,863	1,580	17.9%
EA	3,641	4,142	(2.1%)
NW	3,855	2,651	45.4%
SE	1,786	678	163.4%
SW	3,615	1,587	127.8%
Total	14,760	10,848	36.1%

**Table 5. Deaths involving Pneumonia and Influenza (P&I)
Reported During the Week Ending April 21, 2007 (Week 16)***

Week 16	Season-to-Date	Week 16 Last Season	5 Year Weekly Median
73	2452	123	142

* Beginning in Week 35 of 2003, the number of P&I deaths became based on a new system of retrieval that now includes all contributing causes of death from death certificates.

**Graph 1. Influenza 2006-07 Season-To-Date as compared to the previous 4 influenza seasons
Through the Week Ending April 28, 2007 (Week 17)**



**Table 6. U.S. Influenza Sentinel Physicians Surveillance Network
Influenza-like Illness (ILI) for the Week Ending April 21, 2007 (Week 16)**

Age 0-4	Age 5-24	Age 25-64	Age 65+	Total ILI Patients Seen	Total Patients Seen	Percent ILI*
0	5	0	0	5	2751	0.18*

*This is below the national baseline of 2.1%

**Table 7. Respiratory Specimens Submitted to SPHL for Viral Testing
Through the Week Ending April 28, 2007 (Week 17)***

	Positive Influenza	Total Number Specimens Submitted
Week 17	0	0
Season-to-Date	74	139

*Number positives also represent past weeks specimens submitted.

Antigenic Characterization of Missouri Influenza Isolates submitted to CDC by the State Public Health Laboratory: CDC antigenically characterizes a sample of positive Missouri influenza isolates, submitted through the Missouri Department of Health and Senior Services (DHSS), State Public Health Laboratory (SPHL). DHSS has submitted seventeen influenza isolates this season to CDC for antigenic characterization.

Results Received from CDC: CDC has antigenically characterized four of those isolates so far this season: two as influenza A/Hawaii/15/2001-like (H1N1) viruses and two as influenza A/New Caledonia/20/99-like (H1N1) viruses.

Isolates were characterized by hemagglutination-inhibition using post-infection ferret antisera and are related antigenically to A/Hawaii/15/2001, a minor antigenic variant of A/New Caledonia/20/99. A/New Caledonia/20/99 is the WHO recommended H1 component of the 2006-2007 vaccine for the Northern Hemisphere and 2007 vaccine for the Southern Hemisphere.

FDA's Vaccines and Related Biological Products Advisory Committee (VRBPAC) recommended that influenza vaccines to be used in the 2006-2007 season in the U.S. contain the following:

- An A/New Caledonia/20/99 (H1N1)-like virus;
- An A/Wisconsin/67/2005 (H3N2)-like virus (A/Wisconsin/67/2005 and A/Hiroshima/52/2005 strains); and
- A B/Malaysia/2506/2004-like virus (B/Malaysia/2506/2004 and B/Ohio/1/2005 strains)

The influenza vaccine composition used in the 2006-2007 season in the U.S. is identical to that recommended by the World Health Organization on February 15, 2006.

Clusters/Outbreaks of Influenza-like Illness: No school closings were reported for week 17; no school closings were reported for last season. Thirteen school closings due to Influenza-like illness have been reported season-to-date, as compared to four school closings reported during this same time last season. No outbreaks have been reported this season as compared to nine last season.

Data Sources: Laboratory-confirmed cases are reported to DHSS through the passive communicable disease surveillance system. Suspected influenza clusters and outbreaks are reported through the active surveillance system. Pneumonia and influenza deaths are reported through the DHSS Bureau of Vital Records. Influenza-like illness data by age category and total number of patient visits by week are reported voluntarily by participants in the U.S. Influenza Sentinel Physicians Surveillance Network.

Find Us on the Web

This report may also be found on the DHSS Internet at: www.dhss.state.mo.us/Influenza/index.html.

National influenza surveillance information is available from the Centers for Disease Control and Prevention at: www.cdc.gov/ncidod/diseases/flu/weekly.htm.

Contact Us

The Missouri Department of Health and Senior Services after hour's number for reporting disease cases and emergencies is **1-800-392-0272**.

¹ *All data in this report are provisional and may change as reports are updated.*

² *Influenza activity codes are reported to CDC each Monday.*